

STIC-Biotech/ChemLib

78784

From: Helmer, Georgia
Sent: Friday, October 25, 2002 5:05 PM
To: STIC-Biotech/ChemLib
Subject: 09/805,550

would you please do a sequence search in case 09/805,550 on

SEQ ID 2 and 4 - polypeptides

SEQ ID 1 and 3 - polynucleotides,\

and an oligo search on # 1 and 3.

Thanks in advance

Georgia L. Helmer Ph.D.
Patent Examiner
Crystal Mall 1, 9D14
AU 1638
703-308-7023
Georgia.Helmer@USPTO.gov
mailbox 9e12

mc. excision report

20 cont	80
	mm
4.9%	385
5.4%	348

70%

11/02
✓ gth
no pending 4
2 - 405
368

SID2 OK
4
70% OK
20 mar OK
gth

the data is fine
on the 15 line

Point of Contact:
Barb O'Bryen
Technical Information Specialist
STIC CM1 6A05 308-4291

Searcher: BOB
Phone: _____
Location: _____
Date Picked Up: 11-1
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

completed 11-4-02

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

RECEIVED
JAN 10 1968
U.S. AIR FORCE
HONOLULU, HAWAII

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 3, 2002, 23:27:20 ; Search time 49.7736 Seconds
(without alignments)
1084.239 Million cell updates/sec

Title: US-09-805-550-2

Perfect score: 2036
Sequence: 1 MRLNVTIKGTNFEIEASPD.....ELFTANYLLDHGHEPDDQOO 405

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: /SID52/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SID52/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
3: /SID52/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
4: /SID52/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
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22: /SID52/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*
23: /SID52/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2036	100.0	405	21	AA1980.DAT:*
2	1199.5	58.9	378	21	AA1981.DAT:*
3	1199.5	58.9	378	21	AA1982.DAT:*
4	1095	53.8	335	21	AA1983.DAT:*
5	1095	53.8	335	21	AA1984.DAT:*
6	981	48.2	307	21	AA1985.DAT:*
7	981	48.2	307	21	AA1986.DAT:*
8	945.5	46.4	371	21	AA1987.DAT:*
9	913	44.8	368	21	AA1988.DAT:*
10	900.5	44.2	368	21	AA1989.DAT:*

11	881.5	43.3	348	21	AA1990.DAT:*	Arabidopsis thalia
12	850	41.7	345	21	AA1991.DAT:*	Arabidopsis thalia
13	754.5	37.1	299	21	AA1992.DAT:*	Arabidopsis thalia
14	732	36.0	257	21	AA1993.DAT:*	Arabidopsis thalia
15	725	35.6	296	21	AA1994.DAT:*	Arabidopsis thalia
16	634	31.1	409	19	AA1995.DAT:*	Arabidopsis thalia
17	634	31.1	409	19	AA1996.DAT:*	Arabidopsis thalia
18	628.5	30.9	214	21	AA1997.DAT:*	Arabidopsis thalia
19	623.5	30.6	363	18	AA1998.DAT:*	Arabidopsis thalia
20	573	28.1	363	18	AA1999.DAT:*	Arabidopsis thalia
21	573	28.1	363	18	AA2000.DAT:*	Arabidopsis thalia
22	573	28.1	363	18	AA2001.DAT:*	Arabidopsis thalia
23	572.5	28.1	379	21	AA2002.DAT:*	Arabidopsis thalia
24	548	26.9	346	18	AA2003.DAT:*	Arabidopsis thalia
25	514.5	25.3	186	21	AA2004.DAT:*	Arabidopsis thalia
26	481	23.6	414	22	AA2005.DAT:*	Arabidopsis thalia
27	347	17.0	179	19	AA2006.DAT:*	Arabidopsis thalia
28	347	17.0	179	19	AA2007.DAT:*	Arabidopsis thalia
29	324	15.9	174	19	AA2008.DAT:*	Arabidopsis thalia
30	324	15.9	174	19	AA2009.DAT:*	Arabidopsis thalia
31	318	15.6	117	23	AA2010.DAT:*	Arabidopsis thalia
32	317	15.6	290	22	AA2011.DAT:*	Arabidopsis thalia
33	307	15.1	136	21	AA2012.DAT:*	Arabidopsis thalia
34	289	14.2	150	19	AA2013.DAT:*	Arabidopsis thalia
35	289	14.2	150	19	AA2014.DAT:*	Arabidopsis thalia
36	229	11.2	112	19	AA2015.DAT:*	Arabidopsis thalia
37	229	11.2	112	19	AA2016.DAT:*	Arabidopsis thalia
38	211	10.4	536	21	AA2017.DAT:*	Arabidopsis thalia
39	211	10.4	536	21	AA2018.DAT:*	Arabidopsis thalia
40	201	9.9	604	22	AA2019.DAT:*	Arabidopsis thalia
41	197.5	9.7	596	22	AA2020.DAT:*	Arabidopsis thalia
42	197	9.7	589	22	AA2021.DAT:*	Arabidopsis thalia
43	197	9.7	589	22	AA2022.DAT:*	Arabidopsis thalia
44	197	9.7	589	22	AA2023.DAT:*	Arabidopsis thalia
45	197	9.7	589	22	AA2024.DAT:*	Arabidopsis thalia

ALIGNMENTS

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PT catalytically active polypeptides -
XX Claim 11b; Page 75-76; 82pp; English.
XX The present sequence is the maize Rad23 protein #1. It is isolated from
CC V5 root tissue of a Zea mays cell line B73, infected with corn root
CC worm. The cDNA sequence is deposited under the ATCC No: PTA-530. Maize
CC Rad23 DNA sequence operably linked to a promoter can be used to construct
CC a recombinant expression cassette. This expression cassette can be used
CC to generate a dicot or monocot transgenic plant e.g., maize, soybean,
CC sunflower, sorghum, canola, wheat, etc.. It can also be used to modulate
CC the levels of Rad23 polypeptide expression in a plant or in assays to
CC identify compounds, that bind to and/or modulate the enzymatic activity
CC of catalytically active polypeptides.
XX
SQ Sequence 405 AA;

Query Match 100.0%; Score 2036; DB 21; Length 405;
Best Local Similarity 100.0%; Pred. No. 6,1e-138;
Matches 405; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MKLNKTKLGTNFEIEASPDASVADVKRIETTGOSTYRADQOMLIYOGKILKDETTL 60
DB 1 MKLNKTKLGTNFEIEASPDASVADVKRIETTGOSTYRADQOMLIYOGKILKDETTL 60
OY 61 SNGVASENLFVIMLSKAKSSGASTATTAKAPATLAQPAAYAPASVARTPTQAPVAT 120
DB 61 SNGVASENLFVIMLSKAKSSGASTATTAKAPATLAQPAAYAPASVARTPTQAPVAT 120
OY 121 AETAPPVQOPAAPATVATDADVYSQASNLVFGNNLEOTIOILMGSGTWEROTV 180
DB 121 AETAPPVQOPAAPATVATDADVYSQASNLVFGNNLEOTIOILMGSGTWEROTV 180
OY 181 VRLAARAANNPRAIDLYLSGIPENVEAQPVARAPAAQOTNQOASPAQPAVALPVQPS 240
DB 181 VRLAARAANNPRAIDLYLSGIPENVEAQPVARAPAAQOTNQOASPAQPAVALPVQPS 240
OY 241 PASAGPNNPMLLFPQGVPSGSGNPGVPGAGSALDALRQLPQVALLQVLQVANOITIQ 300
DB 241 PASAGPNNPMLLFPQGVPSGSGNPGVPGAGSALDALRQLPQVALLQVLQVANOITIQ 300
OY 301 PMLQELGKONPQILRLIOENQAEFLRLVNESPEGGPGNIIQLAAVPOTLVTPPEERE 360
DB 301 PMLQELGKONPQILRLIOENQAEFLRLVNESPEGGPGNIIQLAAVPOTLVTPPEERE 360
OY 361 AIORLGEMGFNRELVEVFFACNKDELTANYLLDHGHEFDQOQ 405
DB 361 AIORLGEMGFNRELVEVFFACNKDELTANYLLDHGHEFDQOQ 405

RESULT 2
AAG19974
ID AAG19974 standard; Protein; 378 AA.
XX
AC AAG19974;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 21981.
XX
XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
OS
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
XX 25-FEB-2000; 2000EP-0301439.
PF
XX 25-FEB-1999; 99US-0121825.
PR

PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
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 DB 1 MKIFVKTLSSGNFEELEVPKADKSDVKALIEYKG-AEYPAKMKMLHGGKVLNDETTLE 59
 QY 61 SNGVAENSEFLVIMLSKAKASSGASSTAT-TAKAPATLQAPAPAPASVARTPTQA 116
 DB 60 ENNVVENSFIYIMLSKTVASPSGASTASAPAPASATQPTVATPOVS-APTASV----- 111
 QY 117 PVATAETAPPSVQPOAAPATVAATDDADVYSOASNLVFCNNLEQITQOITLDMGGGWE 176
 DB 112 VPFTSGTA-----TAAFA--TAASVOTDYVGAASNLVAGTTLESTVQOITLDMGGGWD 164
 QY 177 RDTVVRALRAAYNNPERAIDLYSGIPENVEAQPVARAPAGCOOTNOOASPAQPAVALP 236
 DB 165 RDTVVRALRAAFNNPERAVERVELYSGIPQAQELIPYQAQAPATGEQANPLAQPOQAAA--- 221
 QY 237 VQSPSPASGPNANPLNLEPQGVSPSGSNPVGAGSGALDALBQLPQFALLQYQANP 296
 DB 222 --PAAATGPNANPLNLEPQGMPPADA-----GAGAGNIDFLRNSOQFOALRAVQANP 273
 QY 297 QILQPMIOELKONPOLRILOENQAEFLRLVNSPEGGPGCNILIGOLAAVPTQTYTP 356
 DB 274 QILQPMIOELKONPOLRILOENQADFLRLINEVEGEE--NWMEOLEAMPAPVATVP 331
 QY 357 EEREAIQRLGEMGFNRELVLVEFFACNDEDELTANYLLDHDHERPDQ 403
 DB 332 EEREAIERLBGMGFDRANVLEVFACNKNDELTANYLLDHDHEREDQ 378

RESULT 3

ID AAG45204 standard; Protein; 378 AA.

AC AAG45204;

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DT 18-OCT-2000 (first entry)
XX Arabidopsis thaliana protein fragment SEQ ID NO: 56723.
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XX Protein identification: signal transduction pathway: metabolic pathway:
KW hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
PN EPI03405-A2.
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PD 06-SEP-2000.
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Qy	61	SNGVAENSEFLVIMLSKAKASSSGASTAT---TAKAPATLQAAPAPAPASVARTPOA	116	
Db	60	ENNVNENSFVIYIMLSKTKASPSGASTASAPASATQPTVATPGVS-APTASV-----	111	
Qy	117	PVATAEIAPSPVQOQAAPAAVATDDADVYSQAASNLVYGNLNLEQITQOILDMGGTWE	176	
Db	112	PVPISGTA-----TAAAAA---TAASVOTDYGOAASNLVAGTTLTESTVOOILDMGGGSM	164	
Qy	177	RDIVYRALRAAYNNPERIDLYSGIPENYEAQAVAPAPAGCOOTNOQAASPAOPAYALP	236	
Db	165	RDIVYRALRAAFNNPERAVETLISGIPQAQAEIIPYAPAPATGEOQANPLAQPOQAAA---	221	
Qy	237	VQSPDASAGPNAANPLNIEPGGVSGSGSNPGVVPGAGSGALDALROLPOFALLQLOVANP	286	

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Dd	274	OILQMLOELKGONPOLYRLRIOENOADFLRLINEPVSEEF--NVMEQLAAMPQAVTVP	331
Oy	357	EEREAIORLEGMGFNRELVLVEVFFACNKDEBITANTYLLDHGHEFDDQ	403
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XX	KW	Protein identification: signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter termination sequence.	
OS	Arabidopsis thaliana.		
PN	EpI033405-A2.		
XX	PD	06-SEP-2000.	
PF	25-FEB-2000; 2000EP-0301439.		
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DT 18-OCT-2000 (first entry)
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KM Protein identification: signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
KM termination sequence.
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OS Arabidopsis thaliana.
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PD 06-SEP-2000.
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Best Local Similarity	63.9%	Pred. No. 1,4e-70		
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QY	161	EQTIOIIDMGCGTTERDVTVALRAATVNNPERAIDLYLSGILENVEAOVAPAPACQ	220	
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QY	221	TNQQASAPQAPVVALPVOPSPASAGNANPLULFQGVSGSGSNGGVAPGASGALDLAR	280	
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QY	281	OLPQFALLLOLVQANPOLLOPMLOELGKONPOLRLILOENQAEFLRVNESEGGPGNI	340	
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QY	341	IGQLAAVPOULTVTPEEREALQRLLEGMGFNRELVLVEVFACNKDELTANYLLDHGHEF	400	
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XX	KW	Protein identification; signal transduction pathway; metabolic pathway;		
XX	KW	hybridisation assay; genetic mapping; gene expression control; promoter;		
XX	KW	termination sequence.		
OS	Arabidopsis thaliana.			
XX	PN	EP1033405-A2.		
XX	PD	06-SEP-2000.		
XX	PF	25-FEB-2000	2000EP-0301439.	
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PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 30-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151348.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.

PR 16-SEP-1999; 99US-0154039.
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PR 21-OCT-1999; 99US-0160814.
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PR 22-OCT-1999; 99US-0160980.
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PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 48.2%; Score 981; DB 21; Length 307;
Best Local Similarity 62.7%; Pred. No. 1.8e-62;
Matches 210; Conservative 34; Mismatches 59; Indels 32; Gaps 8;

QY 73 MLSKAKSSSGASTAT-----TAKAPATLAOPAPVAPVAPASVARTPTQAPVATATAPPV 128
DB 1 MLSKTKASPSGASTYASAPASATOPQVATPQVS-APTASV-----PVPTSGTA---- 48
QY 129 QPOAPATVATDADAVYSQASNLVEGNLLEOTIQIILDMGGCTWERDVTYVATLRAAY 188
DB 49 -TAAAPA--TAAVQITDYVGOASNLVAGTTLESTVOIILDMGGGSDWRDVTYVATLRAAF 105
QY 189 NNPERAIDYLSGIPENVEAQPVARAPAGQOTNOAASPAQPAVALPVOPSPASAGPNA 248
DB 106 NNPERAVEYLYSGIPQAAEIPVPAQAPATGEOANPLAQPOQAAA-----PAATGGPNA 160
QY 249 NPLNLFPOGVPSGSGSNGCVVPAGSGALDLAKQLPQFOALQLVQANPQIILQMLQELGK 308
DB 161 NPLNLFPOGMFAADA-----GAGAGNLDLFRNSQFOALRAMVQANPQIILQMLQELGK 214
QY 309 ONPQIILRIENQAEFLRIVNESPEGGNIILOLAAYVQDTLYVPEERATQRLGEM 368
DB 215 ONPQVLRILQEHQADFRLRIIEPEGEE--NVMDQLRANMQAVTVPEERATERLEGM 272
QY 369 GFNRELVEVFFACNKKDELTANYLLDGHFEFDDQ 403
DB 273 GFDRANVLEVFACNKNDELAANYLLDHHIEFEEDQ 307
RESULT 8
AAG17377

ID AAG17377 standard; Protein; 371 AA.
XX AAG17377;
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DT 17-OCT-2000 (first entry)
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XX Arabidopsis thaliana protein fragment SEQ ID NO: 18372.
DE
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XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
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XX Arabidopsis thaliana.
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XX EPI033405-A2.
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PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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PR	29-OCT-1999;	99US-0162142.

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PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
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PR 29-OCT-1999; 99US-0162142.

Query Match

44.8%; Score 913; DB 21; Length 368;

Best Local Similarity 47.5%; Pred. No. 1,7e-57;
Matches 194; Conservative 64; Mismatches 104; Indels 46; Gaps 7;

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1 MKLVNFKLKTGNEIEASPDASVADYKRIETQGGSTYRADQOMLYOGKILKDETTLE 60
Db 1 MKLVNFKLKTGNEIEASPDASVADYKRIETQGGSTYRADQOMLYOGKILKDETTLE 60
QY 61 SNGVAENSLYIMLSKAKKSSGASTATTAKAPATTAQPAAPVAPASVARTPTQAPVA 120
1 SNGVAENSLYIMLSKAKKSSGASTATTAKAPATTAQPAAPVAPASVARTPTQAPVA 120
Db 61 ENKVNEDGFLVYMLSKGKTGSTGTSSOHSNTPATROAP-----PLEAPQAP-QPVA 114
QY 121 AETAPPSVQQAAPATVAATDADYYSQAASNLVFGNNLEOTIOOILDMGGTWRDT 179
1 AETAPPSVQQAAPATVAATDADYYSQAASNLVFGNNLEOTIOOILDMGGTWRDT 179
Db 102 TIAAPTSTOSIAVPASSTVYQOPPTAQSDTYGQASTLVSGSTIEQVQOIMEMGGSW 161
QY 176 ERDVTVAALAAAYNPERAIDYLSGIPENVEAOPVAPAPAGQOTNOQASPAQAPVAL 235
1 ERDVTVAALAAAYNPERAIDYLSGIPENVEAOPVAPAPAGQOTNOQASPAQAPVAL 235
Db 162 DKETVTRALPAAYNNPERAVDYLXSGIPETV-----TIPATMLSGVSGRELTAP----- 211
QY 236 PVQSPASAGPAPNPLNLEPQGVSPGSGSNPGVVPAGSGALDALROLPOFALLQVQAN 295
1 PVQSPASAGPAPNPLNLEPQGVSPGSGSNPGVVPAGSGALDALROLPOFALLQVQAN 295
Db 212 -----PPSGGPNSSPLDLFPQEAIVSDAA-----GCDLGTLEFLRGNDQFQQLRSMVNSN 260
QY 296 PQLTQPLQELGKONPQILLLIQENQAEFLRYNESPEGGPGG-NILGQLAAVPTQTLV 354
1 PQLTQPLQELGKONPQILLLIQENQAEFLRYNESPEGGPGG-NILGQLAAVPTQTLV 354
Db 261 PQLTQPLQELGKONPQILLLIQENQAEFLQILNEPEGSGDGDVDFDQDPQEMPHSVN 320
QY 355 TTPEREATQRLGCMGFNRELVEVEFACNKEDELTANYLLDHGHEFD 402
1 TTPEREATQRLGCMGFNRELVEVEFACNKEDELTANYLLDHGHEFD 402
Db 321 TPEQGESIERLEAMGFDRAIVIEAFLSCDNEELANLYLLEHSHAFED 368

RESULT 10
AA71459
ID AAY71459 standard; Protein; 368 AA.
XX AAY71459;
XX 04-OCT-2000 (first entry)
XX Maize Rad23 protein #2.
XX DE
XX Rad23; maize; ATCC No: PTA-531; recombinant expression cassette; wheat;
XX transgenic plant; soybean; sunflower; sorghum; canola; modulator.
XX OS
XX Zea mays.
XX PN MO200031268-A1.
XX PD 02-JUN-2000.
XX PF 12-OCT-1999; 99WO-US24129.
XX PR 23-NOV-1998; 98US-0109728.
XX PA (PION-) PIONEER HI-BRED INT INC.
XX PI Mahajan PB, Tagliani L;
XX DR MPI: 2000-400078/34.
XX DR N-PSDB: AAD01231.
XX Isolated nucleic acid encoding maize RAD23 protein is used to modulate
XX the levels of polypeptides in plant or in assays for identifying
XX compounds that bind to and/or increase/decrease enzymatic activity of
XX catalytically active polypeptides -
XX Claim 11b; Page 78-79; 82pp; English.
XX The present sequence is the maize Rad23 protein #2. It is isolated from
XX a Zea mays cell line, B73 callus tissue regenerated five days after
XX transfer of the callus from medium containing auxin to a medium devoid
XX of exogenous auxin. The cDNA is deposited under the ATCC No: PTA-531.

CC Maize Rad23 DNA sequence operably linked to a promoter, can be used to
CC construct a recombinant expression cassette. This expression cassette
CC can be used to generate a dicot or monocot transgenic plant e.g., maize,
CC soybean, sunflower, sorghum, canola, wheat, etc., It can also be used to
CC modulate the levels of Rad23 polypeptide expression in a plant or in
CC assays to identify compounds, that bind to and/or modulate the enzymatic
CC activity of catalytically active polypeptides.

SQ Sequence 368 AA;
Query Match 44.2%; Score 900.5; DB 21; Length 368;
Best Local Similarity 49.0%; Pred. No. 1.4e-56;
Matches 197; Conservative 53; Mismatches 117; Indels 35; Gaps 7;

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Db 61 ENKVNEDGFLVYMLSKGKTGSTGTSSOHSNTPATROAP-----PLEAPQAP-QPVA 114
QY 120 TAEAPPSVQQAAPATVAATDADYYSQAASNLVFGNNLEOTIOOILDMGGTWRDT 179
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QY 180 VVRLAAYNPERAIDYLSGIPENVEAOPVAPAPAGQOTNOQASPAQAPALPVQ 239
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1 SPASAGPAPNPLNLEPQGVSPGSGSNPGVVPAGSGALDALROLPOFALLQVQAN 299
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QY 300 QPMQLVELSKONPQILRLIEENHDEFLQILNEPEGSGDGDVDFDQDPQEMPHSVN 359
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Db 267 QPMQLVELSKONPQILRLIEENHDEFLQILNEPEGSGDGDVDFDQDPQEMPHSVN 326
QY 360 EATQRLGCMGFNRELVEVEFACNKEDELTANYLLDHGHEFD 401
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RESULT 11
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XX AAG17378;
XX 17-OCT-2000 (first entry)
XX Arabidopsis thaliana protein fragment SEQ ID NO: 18373.
XX DE
XX Protein identification; signal transduction pathway; metabolic pathway;
XX hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
XX Arabidopsis thaliana.
XX PN EP1033405-A2.
XX PD 06-SEP-2000.
XX PF 25-FEB-2000; 2000EP-0301439.
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XX PR 05-MAR-1999; 99US-0123180.
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Query Match	41.7%	Score 850;	DB 21;	Length 345;
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DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 18374.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
hybridisation assay; genetic mapping; gene expression control; promoter;
termination sequence.
XX
OS Arabidopsis thaliana.
XX
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DT 18-OCT-2000 (first entry)
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KW termination sequence.
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